

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,172,570 B2
APPLICATION NO. : 10/765149
DATED : February 6, 2007
INVENTOR(S) : Silvio Cavalcanti et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 1, column 28, line 11, "(q_b, q_u)" should read --(q_b, q_{uf})--.

In claim 9, column 29, line 42, "(P_a, P_v)" should read --(P_a, P_v)--.

In claim 11, column 30, line 41, "comprising;" should read --comprising:--.

In claim 12, column 31, lines 42-43, "(P_{af}, P_{am}, P_{vf}, P_{vm})" should read --(P_{af}, P_{am}, P_{vf}, P_{vm})--.

In claim 15, column 32, line 19, "pump;" should read --pump:--.

In claim 16, column 32, line 60, "(q_b, q_f)" should read --(q_b, q_{uf})--.

In claim 17, column 33, line 12, "blood and" should read --blood; and--.

In claim 20, column 33, line 61, "(N_A, N_V)" should read --(N_A, N_V)--.

In claim 20, column 33, line 65, "(N_A, N_V)" should read --(N_A, N_V)--.

In claim 21, column 34, lines 23-24, "(P_{af}, P_{am}, P_{vf}, P_{vm})" should read --(P_{af}, P_{am}, P_{vf}, P_{vm})--.

In claim 21, column 34, line 26, "(q_b, q_{uf})" should read --(q_b, q_{uf})--.

In claim 22, column 34, line 55, "blood and" should read --blood; and--.

In claim 23, column 35, line 16, "claims 1, 9, 10, 11, 12-15, 16, 17-20, and 21-8." should read --claims 1 and 8-22.--.

In claim 24, column 36, line 6, "the blood wherein the said blood" should read --the blood, wherein said blood--.

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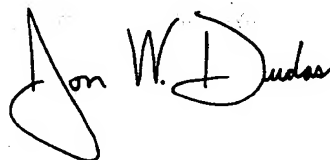
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 24, column 36, line 16, “(R_d, R_f, R_v, q_a, q_f, q_a)” should read
--(R_d, R_f, R_v, q_a, q_f, q_v)--.

Signed and Sealed this

Twenty-second Day of May, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D".

JON W. DUDAS
Director of the United States Patent and Trademark Office